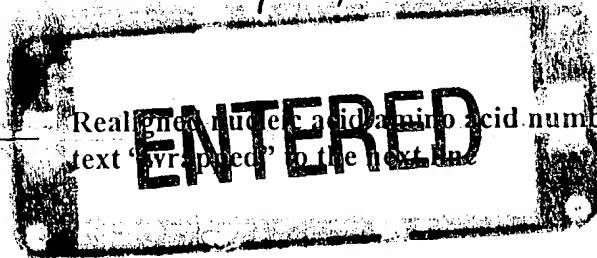


1FW16

**CRF Errors Edited by the STIC Systems
Branch**

Serial Number: 09/115,5890

CRF Edit Date: 8/12/04
Edited by: [Signature]



Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



IFW16

RAW SEQUENCE LISTING

DATE: 08/12/2004

PATENT APPLICATION: US/09/115,589D

TIME: 16:10:28

Input Set : A:\PTO.AMC.TXT

Output Set: N:\CRF4\08122004\I115589D.raw

```

3 <110> APPLICANT: Van Eyk, Jennifer E.
4   Iscoe, Steven D
5   Simpson, Jeremy A
7 <120> TITLE OF INVENTION: Methods of Diagnosing Muscle Damage
9 <130> FILE REFERENCE: 1997-023-02US
11 <140> CURRENT APPLICATION NUMBER: 09/115,589D
12 <141> CURRENT FILING DATE: 1998-07-15
14 <150> PRIOR APPLICATION NUMBER: 60/052,697
15 <151> PRIOR FILING DATE: 1997-07-16
17 <160> NUMBER OF SEQ ID NOS: 49
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 12
23 <212> TYPE: PRT
24 <213> ORGANISM: Unknown
26 <220> FEATURE:
27 <221> NAME/KEY: PEPTIDE
28 <222> LOCATION: (1)..(12)
29 <223> OTHER INFORMATION: Myosin light chain 1
31 <220> FEATURE:
32 <221> NAME/KEY: PEPTIDE
33 <222> LOCATION: (1)
34 <223> OTHER INFORMATION: May be any amino acid.
36 <220> FEATURE:
37 <221> NAME/KEY: PEPTIDE
38 <222> LOCATION: (2)
39 <223> OTHER INFORMATION: May be any amino acid.
41 <220> FEATURE:
42 <221> NAME/KEY: PEPTIDE
43 <222> LOCATION: (7)
44 <223> OTHER INFORMATION: May be either Pro or Ala.
46 <400> SEQUENCE: 1
W--> 47 Xaa Xaa Lys Lys Pro Glu Xaa Lys Ala Asp Asp Ala
48   1               5               10
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 12
53 <212> TYPE: PRT
54 <213> ORGANISM: Unknown
56 <220> FEATURE:
57 <221> NAME/KEY: PEPTIDE
58 <222> LOCATION: (1)..(12)
59 <223> OTHER INFORMATION: Myosin light chain 1
61 <220> FEATURE:

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RAW SEQUENCE LISTING

DATE: 08/12/2004

PATENT APPLICATION: US/09/115,589D

TIME: 16:10:28

Input Set : A:\PTO.AMC.TXT

Output Set: N:\CRF4\08122004\I115589D.raw

62 <221> NAME/KEY: PEPTIDE
 63 <222> LOCATION: (1)
 64 <223> OTHER INFORMATION: May be any amino acid.
 66 <400> SEQUENCE: 2

W--> 67 Xaa Pro Ala Pro Ala Ala Ala Pro Ala Ala Pro

68 1 5 10

71 <210> SEQ ID NO: 3

72 <211> LENGTH: 11

73 <212> TYPE: PRT

74 <213> ORGANISM: Unknown

76 <220> FEATURE:

77 <221> NAME/KEY: PEPTIDE

78 <222> LOCATION: (1)..(11)

79 <223> OTHER INFORMATION: malate dehydrogenase

81 <220> FEATURE:

82 <221> NAME/KEY: PEPTIDE

83 <222> LOCATION: (1)

84 <223> OTHER INFORMATION: May be any amino acid.

86 <220> FEATURE:

87 <221> NAME/KEY: PEPTIDE

88 <222> LOCATION: (8)

89 <223> OTHER INFORMATION: May be any amino acid.

91 <400> SEQUENCE: 3

W--> 92 Xaa Lys Val Ala Leu Gly Ala Xaa Gly Gly Ile

93 1 5 10

96 <210> SEQ ID NO: 4

97 <211> LENGTH: 13

98 <212> TYPE: PRT

99 <213> ORGANISM: Unknown

101 <220> FEATURE:

102 <221> NAME/KEY: PEPTIDE

103 <222> LOCATION: (1)..(13)

104 <223> OTHER INFORMATION: ATP g synthase chain

106 <220> FEATURE:

107 <221> NAME/KEY: PEPTIDE

108 <222> LOCATION: (1)

109 <223> OTHER INFORMATION: May be any amino acid.

111 <220> FEATURE:

112 <221> NAME/KEY: PEPTIDE

113 <222> LOCATION: (2)

114 <223> OTHER INFORMATION: May be any amino acid.

116 <400> SEQUENCE: 4

W--> 117 Xaa Xaa Leu Lys Asp Ile Thr Arg Arg Leu Lys Ser Ile

118 1 5 10

121 <210> SEQ ID NO: 5

122 <211> LENGTH: 10

123 <212> TYPE: PRT

124 <213> ORGANISM: Unknown

126 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 08/12/2004

PATENT APPLICATION: US/09/115,589D

TIME: 16:10:28

Input Set : A:\PTO.AMC.TXT

Output Set: N:\CRF4\08122004\I115589D.raw

127 <221> NAME/KEY: PEPTIDE
 128 <222> LOCATION: (1)..(10)
 129 <223> OTHER INFORMATION: ATP synthase oligomycin conferring protein
 131 <220> FEATURE:
 132 <221> NAME/KEY: PEPTIDE
 133 <222> LOCATION: (1)
 134 <223> OTHER INFORMATION: May be any amino acid.
 136 <220> FEATURE:
 137 <221> NAME/KEY: PEPTIDE
 138 <222> LOCATION: (2)
 139 <223> OTHER INFORMATION: May be any amino acid.
 141 <400> SEQUENCE: 5

W--> 142 Xaa Xaa Lys Leu Val Arg Pro Pro Val Gln

143 1 5 10

146 <210> SEQ ID NO: 6

147 <211> LENGTH: 10

148 <212> TYPE: PRT

149 <213> ORGANISM: Unknown

151 <220> FEATURE:

152 <221> NAME/KEY: PEPTIDE

153 <222> LOCATION: (1)..(10)

154 <223> OTHER INFORMATION: serum albumin

156 <220> FEATURE:

157 <221> NAME/KEY: PEPTIDE

158 <222> LOCATION: (1)

159 <223> OTHER INFORMATION: May be any amino acid.

161 <400> SEQUENCE: 6

W--> 162 Xaa Ala His Lys Ser Glu Ile Ala His Arg

163 1 5 10

166 <210> SEQ ID NO: 7

167 <211> LENGTH: 11

168 <212> TYPE: PRT

169 <213> ORGANISM: Unknown

171 <220> FEATURE:

172 <221> NAME/KEY: PEPTIDE

173 <222> LOCATION: (1)..(11)

174 <223> OTHER INFORMATION: triose phosphate isomerase

176 <220> FEATURE:

177 <221> NAME/KEY: PEPTIDE

178 <222> LOCATION: (1)

179 <223> OTHER INFORMATION: May be any amino acid.

181 <220> FEATURE:

182 <221> NAME/KEY: PEPTIDE

183 <222> LOCATION: (4)

184 <223> OTHER INFORMATION: May be Arg or Leu.

186 <400> SEQUENCE: 7

W--> 187 Xaa Pro Ser Xaa Lys Phe Phe Val Gly Gly Asn

188 1 5 10

191 <210> SEQ ID NO: 8

RAW SEQUENCE LISTING

DATE: 08/12/2004

PATENT APPLICATION: US/09/115,589D

TIME: 16:10:28

Input Set : A:\PTO.AMC.TXT

Output Set: N:\CRF4\08122004\I115589D.raw

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192 <211> LENGTH: 209
193 <212> TYPE: PRT
194 <213> ORGANISM: Unknown
196 <220> FEATURE:
197 <221> NAME/KEY: PEPTIDE
198 <222> LOCATION: (1)..(209)
199 <223> OTHER INFORMATION: Human cardiac troponin I
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Swiss prot identification number P19429
204 <300> PUBLICATION INFORMATION:
205 <303> JOURNAL: FEBS Lett.
206 <304> VOLUME: 270
207 <305> ISSUE: 1-2
208 <306> PAGES: 57-61
209 <307> DATE: 1990-09-17
211 <400> SEQUENCE: 8
212 Ala Asp Gly Ser Ser Asp Ala Ala Arg Glu Pro Arg Pro Ala Pro Ala
213   1           5           10           15
215 Pro Ile Arg Arg Arg Ser Ser Asn Tyr Arg Ala Tyr Ala Thr Glu Pro
216           20           25           30
218 His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu
219           35           40           45
221 Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala
222           50           55           60
224 Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln
225   65           70           75           80
227 Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln Asp Leu Cys
228           85           90           95
230 Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp
231           100          105          110
233 Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr
234           115          120          125
236 Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg
237           130          135          140
239 Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Ala
240  145          150          155          160
242 Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys
243           165          170          175
245 Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys
246           180          185          190
248 Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu
249           195          200          205
251 Ser
255 <210> SEQ ID NO: 9
256 <211> LENGTH: 186
257 <212> TYPE: PRT
258 <213> ORGANISM: Unknown
260 <220> FEATURE:
261 <221> NAME/KEY: PEPTIDE

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RAW SEQUENCE LISTING

DATE: 08/12/2004

PATENT APPLICATION: US/09/115,589D

TIME: 16:10:28

Input Set : A:\PTO.AMC.TXT

Output Set: N:\CRF4\08122004\I115589D.raw

262 <222> LOCATION: (1)..(186)
 263 <223> OTHER INFORMATION: Human slow skeletal troponin I
 265 <220> FEATURE:
 266 <223> OTHER INFORMATION: Swiss prot identification number P19237
 268 <300> PUBLICATION INFORMATION:
 269 <303> JOURNAL: Genomics
 270 <304> VOLUME: 7
 271 <305> ISSUE: 3
 272 <306> PAGES: 346-357
 273 <307> DATE: Jul-1990
 275 <400> SEQUENCE: 9
 276 Pro Glu Val Glu Arg Lys Pro Lys Ile Thr Ala Ser Arg Lys Leu Leu
 277 1 5 10 15
 279 Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
 280 20 25 30
 282 His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ala Glu Arg Ile
 283 35 40 45
 285 Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
 286 50 55 60
 288 Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
 289 65 70 75 80
 291 Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
 292 85 90 95
 294 Lys Leu Lys Val Met Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
 295 100 105 110
 297 Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
 298 115 120 125
 300 Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
 301 130 135 140
 303 Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
 304 145 150 155 160
 306 Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
 307 165 170 175
 309 Phe Asp Ala Ala Lys Ser Pro Thr Ser Gln
 310 180 185
 313 <210> SEQ ID NO: 10
 314 <211> LENGTH: 181
 315 <212> TYPE: PRT
 316 <213> ORGANISM: Unknown
 318 <220> FEATURE:
 319 <221> NAME/KEY: PEPTIDE
 320 <222> LOCATION: (1)..(181)
 321 <223> OTHER INFORMATION: Human fast skeletal troponin I
 323 <220> FEATURE:
 324 <223> OTHER INFORMATION: Swiss prot identification number P48788
 326 <300> PUBLICATION INFORMATION:
 327 <303> JOURNAL: Biochim. Biophys. Acta
 328 <304> VOLUME: 1217
 329 <306> PAGES: 338-340

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/115,589D

DATE: 08/12/2004
TIME: 16:10:29

Input Set : A:\PTO.AMC.TXT
Output Set: N:\CRF4\08122004\I115589D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. ~~1,2,7~~
Seq#:2; Xaa Pos. ~~1~~
Seq#:3; Xaa Pos. ~~1,8~~
Seq#:4; Xaa Pos. ~~1,2~~
Seq#:5; Xaa Pos. ~~1,2~~
Seq#:6; Xaa Pos. ~~1~~
Seq#:7; Xaa Pos. ~~1,4~~

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:36; Line(s) 1554

VERIFICATION SUMMARY

DATE: 08/12/2004

PATENT APPLICATION: US/09/115,589D

TIME: 16:10:29

Input Set : A:\PTO.AMC.TXT

Output Set: N:\CRF4\08122004\I115589D.raw

L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0



IFW16

RAW SEQUENCE LISTING

DATE: 08/11/2004

PATENT APPLICATION: US/09/115,589D

TIME: 16:25:59

Input Set : A:\PTQ-27sq2.TXT

Output Set: N:\CRF4\08112004\I115589D.raw

3 <110> APPLICANT: Van Eyk, Jennifer E.
 4 Iscoe, Steven D
 5 Simpson, Jeremy A
 7 <120> TITLE OF INVENTION: Methods of Diagnosing Muscle Damage
 9 <130> FILE REFERENCE: 1997-023-02US
 11 <140> CURRENT APPLICATION NUMBER: 09/115,589D
 12 <141> CURRENT FILING DATE: 1998-07-15
 14 <150> PRIOR APPLICATION NUMBER: 60/052,697
 15 <151> PRIOR FILING DATE: 1997-07-16
 17 <160> NUMBER OF SEQ ID NOS: 49
 19 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

Does Not Comply
Corrected Diskette Needed

1856 <210> SEQ ID NO: 49
 1857 <211> LENGTH: 94
 1858 <212> TYPE: PRT
 1859 <213> ORGANISM: Unknown
 1861 <220> FEATURE:
 1862 <221> NAME/KEY: PEPTIDE
 1863 <222> LOCATION: (1)..(94)
 1864 <223> OTHER INFORMATION: human cardiac/slow skeletal troponin C
 1866 <400> SEQUENCE: 49
 1867 Met Asp Asp Ile Tyr Lys Ala Ala Val Glu Gln Leu Thr Glu Glu Gln
 1868 1 5 10 15
 1870 Lys Asn Glu Phe Lys Ala Ala Phe Asp Ile Phe Val Leu Gly Ala Glu
 1871 20 25 30
 1873 Asp Gly Cys Ile Ser Thr Lys Glu Lys Gly Lys Val Met Arg Met Lys
 1874 35 40 45
 1876 Gly Gln Asn Pro Thr Pro Glu Glu Lys Gln Glu Met Ile Asp Glu Val
 1877 50 55 60
 1879 Asp Glu Asp Gly Ser Gly Thr Val Asp Phe Asp Glu Phe Leu Val Met
 1880 65 70 75 80
 1882 Met Val Arg Cys Met Lys Asp Asp Ser Lys Gly Lys Ser Glu
 1883 85 90

E--> 1887 34

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/115,589D

DATE: 08/11/2004
TIME: 16:26:00

Input Set : A:\PTQ-27sq2.TXT
Output Set: N:\CRF4\08112004\I115589D.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:36; Line(s) 1554

VERIFICATION SUMMARY

DATE: 08/11/2004

PATENT APPLICATION: US/09/115,589D

TIME: 16:26:00

Input Set : A:\PTQ-27sq2.TXT

Output Set: N:\CRF4\08112004\I115589D.raw

L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
 L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
 L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
 L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
 L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
 L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
 L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
 L:1887 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:49